NC/PMC/YD/W3/2018-19/G5 Date: 10-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	92.35	70-100
9.50	58.70	50-80
4.75	50.55	40-65
2.36	42.60	30-50
0.425	12.95	10-15
0.075	4.05	<5

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Proprietor

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Date: 10-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.36%	Not more than 2.0 %
2.	Liquid Limit, %	18.35	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.45	----------
5.	Aggregate Impact Value, %	26.70	Not more than 40.00 %

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NC/PMC/YD/W3/2018-19/G6 Date: 11-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	96.25	70-100
9.50	64.60	50-80
4.75	49.30	40-65
2.36	39.75	30-50
0.425	13.10	10-15
0.075	3.50	<5

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Date: 11-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.36 %	Not more than 2.0 %
2.	Liquid Limit, %	18.70	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	5.85	----------
5.	Aggregate Impact Value, %	27.25	Not more than 40.00 %

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NC/PMC/YD/W3/2018-19/W1 Date: 09-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.60	95-100
26.50	---	-
22.40	72.35	60-80
11.20	52.60	40-60
4.75	35.10	25-40
2.36	25.30	15-30
0.600	17.25	8-22
0.075	4.10	0-5

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NC/PMC/YD/W3/2018-19/W2 Date: 10-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.90	95-100
26.50	---	-
22.40	72.35	60-80
11.20	48.40	40-60
4.75	33.60	25-40
2.36	26.75	15-30
0.600	18.35	8-22
0.075	4.05	0-5

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EMAIL:newzen576@gmail.com

Date: 10-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.42 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.75 %	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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EMAIL:newzen576@gmail.com

NC/PMC/YD/W3/2018-19/W3 Date: 11-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	72.45	60-80
11.20	55.60	40-60
4.75	35.15	25-40
2.36	23.50	15-30
0.600	17.65	8-22
0.075	4.10	0-5

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Date: 11-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.45 %	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	28.10 %	Not more than 35.0 %
3.	Water absorption, %	0.38%	Not more than 2 0 %
4.	Plasticity Index, %	NP	Not more than 6 0 %

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NC/PMC/YD/W3/2018-19/W4 Date: 12-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	74.55	60-80
11.20	48.35	40-60
4.75	34.50	25-40
2.36	24.60	15-30
0.600	18.55	8-22
0.075	3.80	0-5

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Date: 12-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.90 %	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	27.45 %	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/PMC/YD/W3/2018-19/W5 Date: 15-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.10	95-100
26.50	---	-
22.40	73.45	60-80
11.20	54.60	40-60
4.75	36.30	25-40
2.36	28.95	15-30
0.600	18.50	8-22
0.075	3.75	0-5

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Date: 15-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.65 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.10 %	Not more than 35.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/PMC/YD/W3/2018-19/W6 Date: 16-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.10	95-100
26.50	---	-
22.40	72.45	60-80
11.20	54.55	40-60
4.75	38.10	25-40
2.36	24.65	15-30
0.600	19.40	8-22
0.075	4.10	0-5

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EMAIL:newzen576@gmail.com

Date: 16-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.15 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.36 %	Not more than 35.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/PMC/YD/W3/2018-19/W7 Date: 17-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.45	95-100
26.50	---	-
22.40	75.56	60-80
11.20	56.30	40-60
4.75	35.25	25-40
2.36	28.15	15-30
0.600	19.95	8-22
0.075	4.20	0-5

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Date: 17-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.76 %	Not more than 30 00 %
2.	Combined Flakiness and Elongation index, %	28.31 %	Not more than 35.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/PMC/YD/W3/2018-19/W8 Date: 22-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	71.45	60-80
11.20	52.50	40-60
4.75	39.30	25-40
2.36	28.55	15-30
0.600	19.45	8-22
0.075	4.25	0-5

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NC/PMC/YD/W3/2018-19/W9 Date: 22-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.55	95-100
26.50	---	-
22.40	68.15	60-80
11.20	54.50	40-60
4.75	36.25	25-40
2.36	24.55	15-30
0.600	19.45	8-22
0.075	3.90	0-5

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NC/PMC/YD/W3/2018-19/W10 Date: 23-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.65	95-100
26.50	---	-
22.40	69.30	60-80
11.20	53.55	40-60
4.75	36.90	25-40
2.36	27.45	15-30
0.600	18.65	8-22
0.075	4.10	0-5

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NC/PMC/YD/W3/2018-19/W11 Date: 25-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	72.55	60-80
11.20	58.50	40-60
4.75	36.85	25-40
2.36	24.75	15-30
0.600	18.35	8-22
0.075	4.25	0-5

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NC/PMC/YD/W3/2018-19/W12 Date: 26-10-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.55	95-100
26.50	---	-
22.40	73.40	60-80
11.20	54.60	40-60
4.75	34.50	25-40
2.36	27.85	15-30
0.600	17.95	8-22
0.075	4.05	0-5

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NC/PMC/YD/W3/2018-19/BD1 Date: 29-10-2018

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**56.0**	Min. 45
2.	Ductility Value at 25^0 C	**103.30cm**	40
3.	Flash point	**236^0 C**	Minimum 220^0 C
4.	Softening point	**54.0^0 C**	Min. 47

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NC/PMC/YD/W3/2018-19/CD1 Date: 29-10-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.32 %**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**28.04%**	Not more than 35.0 %
3.	Water absorption, %	**0.37 %**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**6.90 %**	Max. 12 % in Sodium Sulphate

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NC/PMC/YD/W3/2018-19/DBM1 Date: 02-11-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.60	90-100
19.0	81.30	71-95
13.20	68.80	56-80
4.75	49.35	38-54
2.36	37.80	28-42
0.300	17.65	7-21
0.075	6.95	2-8

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